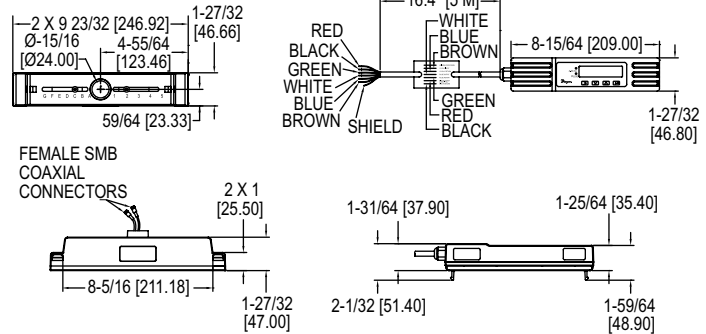


# COMPACT ULTRASONIC FLOWMETER

Cost Effective, Compact and Adjustable Design, Non-Invasive

CALIBRATION SERVICES AVAILABLE



The **Series UFM2 Compact Ultrasonic Flowmeters** are economical, clamp-on, ultrasonic flowmeters. The UFM2 implements the transit-time difference to measure flow rates in pipes and can measure velocity and flow in pipes with outside diameters ranging from 3/4 to 7" (25 to 180 mm). This model comes with a volume pulse and 4-20 mA flow rate output.

**BENEFITS/FEATURES**

- Save on installation costs with non-invasive pipe measurement
- Simplified installation with all necessary components included, such as converter, sensor, cables and mounting accessories
- Fit application requirements with compact and lightweight design, that can be easily installed, all in one clamp-on unit intended for homogeneous liquids that contain no air
- Cut down evaluation time with easy-to-read text displaying both flow rate and total with a convenient backlight for visual comfort

**APPLICATIONS**

- Flow measurement for heat metering
- Metering and monitoring in:
  - Chilled water
  - Potable water
  - Process water

**KIT INCLUDES**

- Converter with adjustable guiderail
- Set of pipe clamps (model dependent)
- Set of small pipe adaptor circle clamps
- Set of small pipe adaptor V clamps
- Ultrasonic coupling grease

MODEL CHART	
Model	Description
UFM2-14	Compact ultrasonic flowmeter, pulse and 4-20 mA outputs, 3/4 to 4" (25 to 115 mm) pipe
UFM2-16	Compact ultrasonic flowmeter, pulse and 4-20 mA outputs, 5 to 7" (125 to 180 mm) pipe

**SPECIFICATIONS**

**Service:** Clean water with <3% by volume of particulate content.  
**Range:** 0.33 to 32.8 ft/s (0.1 to 10 m/s).  
**Display:** Backlit: 3.27" H x 0.74" W (83.1 mm x 18.8 mm), 2 line x 16 characters.  
**Accuracy:** ±3% of flow reading for >0.98 ft/s (>0.3 m/s).  
**Power Requirements:** 12-24 VDC/VAC.  
**Power Consumption:** 7 W max.  
**Temperature Limits:** Process: 32 to 185°F (0 to 85°C); Ambient: 32 to 122°F (0 to 50°C).  
**Outputs:** Analog: 1 opto-isolated: 4-20 mA; Error current: 3.5 mA; Load resistance: 620 Ω max; Pulse: 1 opto-isolated MOSFET relay, 500 mA max, 166 pps max, 200 Hz max.  
**Enclosure Rating:** IP54.

**Enclosure Material:** Plastic polycarbonate.  
**Repeatability:** ±0.15% of measured value.  
**Electrical Connections:** 16.4' (5 m) cable.  
**Response Time:** <1 s.  
**Weight:** 2.9 lb (1.315 kg).  
**Compliance:** CE.

**ADDITIONAL SPECIFICATIONS**  
**Applicable Pipe Material:** Steel, copper, or plastic.  
**Pipe Outside Diameter:** 3/4 to 7" (25 to 180 mm)\*.  
**Applicable Pipe Lining:** None.  
**Pipe Wall Thickness:** 0.02 to 0.39" (0.5 to 10 mm).

\*Pipe size is dependent on pipe material and internal diameter.

OPTIONS	
Use order code:	Description
NISTCAL-FU	NIST traceable calibration certificate